

DERWENT-ACC-NO: 2000-293854
DERWENT-WEEK: 200140
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TITLE: Linear guide with guide housing operating
as section carrier, has
attached guide rail and drive for longitudinal
movement of guide and running
carriages

INVENTOR: BAALMANN, K; LUTZ, P ; RUDY, D ; RUFFING,
R

PATENT-ASSIGNEE: INA WAEELZLAGER SCHAEFFLER
OHG[ISCH]

PRIORITY-DATA: 1998DE-1042384 (September 16, 1998)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	MAIN-IPC
DE 19842384 A1		March 23, 2000	N/A
005		H02K 041/02	
EP 1114504 A1		July 11, 2001	G
000		H02K 041/03	
WO 200016468		March 23, 2000	G
000		H02K 041/03	
A1			

DESIGNATED-STATES: AT BE CH CY DE DK ES FI FR GB GR
IE IT LI LU MC NL PT SE DE U
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PT SE

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
	APPL-DATE	

DE 19842384A1	N/A	
1998DE-1042384	September 16, 1998	
EP 1114504A1	N/A	
1999EP-0969186	September 9, 1999	
EP 1114504A1	N/A	
1999WO-EP06633	September 9, 1999	
EP 1114504A1	Based on	WO
200016468	N/A	
WO	N/A	
1999WO-EP06633	September 9, 1999	
200016468A1		

INT-CL (IPC): B23Q005/027; F16C029/04 ;
H02K041/02 ; H02K041/03

ABSTRACTED-PUB-NO: DE 19842384A
BASIC-ABSTRACT: NOVELTY - The drive for the longitudinal movement of the guide carriage (3) and the travelling carriage (5) is designed as an electric motor, with a motor part (11) arranged in the guide housing (1) and a motor part (10) in the travelling carriage (5). The motor parts (10,11) are respectively primary and secondary parts. The guide housing (1) and or the travelling carriage (5) are respectively made of an extruded section part.

USE - As electric motor linear drive for handling and positioning material, workpieces and goods.

ADVANTAGE - The arrangement is simply constructed, can be produced cost effectively, and provides a compact linear guide with motor primary part in travelling carriage and motor secondary part in guide housing.

DESCRIPTION OF DRAWING(S) - The figure shows a

cross section through a linear
guide unit with two guide rails arranged at same
height.

Guide housing 1

Guide rail 2

Guide carriage 3

Longitudinal openings 7,8

Motor primary part 10

Motor secondary part 11

Permanent magnet strips 14

CHOSEN-DRAWING: Dwg.1/2

TITLE-TERMS:

LINEAR GUIDE GUIDE HOUSING OPERATE SECTION CARRY
ATTACH GUIDE RAIL DRIVE
LONGITUDE MOVEMENT GUIDE RUN CARRIAGE

DERWENT-CLASS: P56 Q62 V06 X11

EPI-CODES: V06-M06B; V06-U; X11-H02; X11-U07;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N2000-220341

DERWENT-ACC-NO: 1995-233438
DERWENT-WEEK: 199828
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TITLE: Sensor system for rotor angular position,
speed or acceleration -
employs segmented disc rotating within
photoelectric windows and between
electromagnetic induction coils in dc field

INVENTOR: BOEHRINGER, A; LETTAU, U ; SCHMIDT, R

PATENT-ASSIGNEE: BOEHRINGER A[BOEHI]

PRIORITY-DATA: 1994DE-4439233 (November 3, 1994) ,
1993DE-4344875 (December 29,
1993)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	MAIN-IPC
EP 661543 A1		July 5, 1995	G
036		G01P 003/486	
DE 59405841 G		June 4, 1998	N/A
000		G01P 003/486	
DE 4439233 A1		July 6, 1995	N/A
035		G01P 003/44	
EP 661543 B1		April 29, 1998	G
039		G01P 003/486	

DESIGNATED-STATES: DE ES FR GB IT SE DE ES FR GB IT
SE

CITED-DOCUMENTS: 01Jnl.Ref; DE 3314567 ; DE 3918152
; DE 739775

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
	APPL-DATE	
EP 661543A1	N/A	
1994EP-0118374	November 23, 1994	
DE 59405841G	N/A	
1994DE-0505841	November 23, 1994	
DE 59405841G	N/A	
1994EP-0118374	November 23, 1994	
DE 59405841G	Based on	EP
661543	N/A	
DE 4439233A1	N/A	
1994DE-4439233	November 3, 1994	
EP 661543B1	N/A	
1994EP-0118374	November 23, 1994	

INT-CL (IPC): G01B007/30; G01P003/44 ;
 G01P003/486 ; G01P007/00 ;
 G01P015/00 ; G01P015/08 ; G01R005/20

ABSTRACTED-PUB-NO: EP 661543A
 BASIC-ABSTRACT: The system, a Ferraris
 accelerometer, has an electrically
 conductive non-ferromagnetic disc (18) connected
 rigidly to the rotor shaft
 (17) and influenced in opposite directions over its
 two halves by the DC field
 of a stationary magnet system (not depicted). The
 magnetic fluxes are guided
 (19) through measuring coils (20) in which the
 induced voltages are
 proportional to the angular acceleration of the
 disc.

The angular position is determined from uniformly
 segmented markings pref. on
 the rim of the disc as they pass through a
 transparent window (21) between an
 LED and a phototransistor.

USE/ADVANTAGE - In control of rotary machine.
 Transfer functions for angular

acceleration and position measurements are identical even when rigid connection to point of application of accelerating and retarding torques is impossible.

ABSTRACTED-PUB-NO: EP 661543B

EQUIVALENT-ABSTRACTS: The system, a Ferraris accelerometer, has an electrically conductive non-ferromagnetic disc (18) connected rigidly to the rotor shaft (17) and influenced in opposite directions over its two halves by the DC field of a stationary magnet system (not depicted). The magnetic fluxes are guided (19) through measuring coils (20) in which the induced voltages are proportional to the angular acceleration of the disc.

The angular position is determined from uniformly segmented markings pref. on the rim of the disc as they pass through a transparent window (21) between an LED and a phototransistor.

USE/ADVANTAGE - In control of rotary machine. Transfer functions for angular acceleration and position measurements are identical even when rigid connection to point of application of accelerating and retarding torques is impossible.

CHOSEN-DRAWING: Dwg.4/27 Dwg.1/27

TITLE-TERMS:

SENSE SYSTEM ROTOR ANGULAR POSITION SPEED
ACCELERATE EMPLOY SEGMENT DISC
ROTATING PHOTOELECTRIC WINDOW ELECTROMAGNET
INDUCTION COIL DC FIELD

DERWENT-CLASS: S02 U21

EPI-CODES: S02-G01B1; S02-G03; U21-A03J1;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1995-181931